

# Comparisons of Job Characteristics

**Focus Occupation:** [Structural Iron and Steel Workers \(47-2221\)](#)

**Associated Occupation:** [Supervisors of Construction and Extraction Workers \(47-1011\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

## Knowledge

Similarity of Focus Occupation to Associated Occupation: 87

**Focus Occupation:** Structural Iron and Steel Workers (47-2221)

**Associated Occupation:** Supervisors of Construction and Extraction Workers (47-1011)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Building and Construction	4.0	16.9	18.3	0	Current knowledge level may be sufficient
Mechanical	6.8	13.9	13.5	0	Current knowledge level may be sufficient
Administration and Management	8.4	12.8	6.4	<<	Extensive education and/or training may be required
Mathematics	9.2	12.8	12.5	0	Current knowledge level may be sufficient
Design	5.2	10.9	11.2	0	Current knowledge level may be sufficient
Engineering and Technology	5.7	10.6	11.5	0	Current knowledge level may be sufficient
Public Safety and Security	6.9	10.2	8.9	<	Expanded education and/or training may be required
Personnel and Human Resources	5.6	8.6	8.4	0	Current knowledge level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Skills

Similarity of Focus Occupation to Associated Occupation: 66

**Focus Occupation:** Structural Iron and Steel Workers (47-2221)

**Associated Occupation:** Supervisors of Construction and Extraction Workers (47-1011)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Coordination	9.1	12.2	11.2	0	Current skill level may be sufficient
Management of Personnel Resources	6.9	11.6	7.6	<<	Extensive development of skills in this area may be required
Time Management	8.9	11.2	9.5	<	A higher skill level may be required
Persuasion	7.4	9.6	6.1	<<	Extensive development of skills in this area may be required
Equipment Selection	3.3	6.9	6.1	<	A higher skill level may be required

Management of Material Resources	3.7	5.6	4.2	<<	Extensive development of skills in this area may be required
----------------------------------	-----	-----	-----	----	--

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Abilities

Similarity of Focus Occupation to Associated Occupation: 17

**Focus Occupation: Structural Iron and Steel Workers (47-2221)**

**Associated Occupation: Supervisors of Construction and Extraction Workers (47-1011)**

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Oral Comprehension	12.5	13.4	9.5	<<	Extensive improvement in abilities may be required
Oral Expression	12.4	13.3	8.8	<<	Extensive improvement in abilities may be required
Problem Sensitivity	11.1	12.1	10.4	<	Some improvement in abilities may be required
Deductive Reasoning	10.6	11.2	8.4	<<	Extensive improvement in abilities may be required
Near Vision	11.1	11.0	12.4	>	Current ability level is likely sufficient
Written Comprehension	11.0	10.7	8.5	<	Some improvement in abilities may be required
Written Expression	9.8	10.6	5.3	<<	Extensive improvement in abilities may be required
Inductive Reasoning	10.2	10.4	8.1	<	Some improvement in abilities may be required
Visualization	7.5	9.8	12.3	>	Current ability level is likely sufficient
Number Facility	6.3	8.2	6.1	<<	Extensive improvement in abilities may be required
Time Sharing	6.6	7.9	7.7	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 54

**Focus Occupation: Structural Iron and Steel Workers (47-2221)**

**Associated Occupation: Supervisors of Construction and Extraction Workers (47-1011)**

Work Activities	Exclusivity of Activity
Perform safety inspections in construction or resource extraction setting	46
Read blueprints	10
Read specifications	23
Use hand or power tools	2

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Tools and Technologies that Both Occupations Have in Common

Similarity of Focus  
Occupation to Associated  
Occupation: 83

**Focus Occupation: Structural Iron and Steel Workers (47-2221)**

**Associated Occupation: Supervisors of Construction and Extraction Workers (47-1011)**

Tools and Technologies	Exclusivity
Aerial lifts	13
Building construction machinery and accessories	25
Business function specific software	1
Compressors	9
Computers	1
Cutting and crimping and punching tools	3
Cutting tools	18
Face and head protection	7
Fall protection	16
Forming tools	2
Hearing protectors	12
Holding and clamping tools	3
Igniters	47
Industry specific software	1
Ladders and scaffolding	6
Lifting equipment and accessories	3
Marking tools	11
Measuring and layout tools	3
Personal communication devices	2
Power tools	2
Prying and bending tools	10
Pumps	9
Respiratory protection	6
Rough and finishing tools	5
Safety apparel	4
Soldering and brazing and welding machinery and supplies	6
Vision protection and accessories	3
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.